



Approved for use through 11/30/2005. OMB 0651-0035  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

Application Number	09/833,578
Filing Date	April 13, 2001
First Named Inventor	Apisdorf
Title	System and Method for Data Forwarding in a Programmable Network Processor
Art Unit	
Examiner Name	
Attorney Docket Number	B4-B86

I hereby appoint:

Practitioners at Customer Number:

26384

OR

Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

The above-mentioned Customer Number:

OR

The address associated with Customer Number:

OR

<input type="checkbox"/>	Firm or Individual Name			
Address				
Address				
City		State	Zip	
Country				
Telephone		Fax		

I am the:

Applicant/Inventor,

Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/86)

**SIGNATURE of Applicant or Assignee of Record**

Name	Thomas E. McDonnell
Signature	
Date	27 Oct 2003
Telephone	703-656-4220

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments and suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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OCT 10 2003  
PATENT & TRADEMARK OFFICE  
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PTO/98B/98 (08-03)

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: The United States as Represented by the Secretary of the NavyApplication No./Patent No.: 09/839,578 Filed/Issue Date: April 13, 2001Entitled: SYSTEM AND METHOD FOR DATA FORWARDING IN A PROGRAMMABLE NETWORK PROCESSOR ENVIRONMENT  
The United States of America as Represented  
by the Secretary of the Navy(Name of Assignee) a Government Agency

(Type of Assignee, e.g. corporation, partnership, university, government agency, etc.)

**RECEIVED**

states that it is:

 the assignee of the entire right, title, and interest; or an assignee of less than the entire right, title and interest.The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:

A. [ ] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_ Frame \_\_\_\_\_ or for which a copy thereof is attached.

OR

B. [X] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

- Joel Z. Apisdorf  
 1. From: Sam Sandboe, Michael D. Poole To: Acorn Networks, INC.  
 The document was recorded in the United States Patent and Trademark Office at Reel 011778, Frame 0001, or for which a copy thereof is attached.  
 The United States of America as Represented  
 To: the Secretary of the Navy  
 The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: Acorn Networks, INC. To: the Secretary of the Navy  
 The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[ ] Additional documents in the chain of title are listed on a supplemental sheet.

[x] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

22 Sept 2003

Date

703-696-4000

Telephone number

Thomas E. McDonnell

Typed or printed name

Thomas E. McDonnell

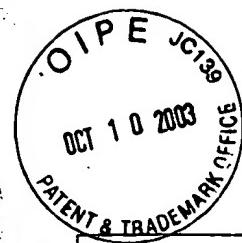
Signature

Patent Commissioner of the Navy

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments and suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

4-13-01

05-04-2001



101702227

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

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OCT 20 2003

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

Technology Center 2600

1033  
U.S. PTO  
04/13/01  
001/823578

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

**Submission Type**

- New
- Resubmission (Non-Recordation)  
Document ID#
- Correction of PTO Error  
Reel #  Frame #
- Corrective Document  
Reel #  Frame #

**Conveyance Type**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Security Agreement         |
| <input type="checkbox"/> License               | <input type="checkbox"/> Change of Name             |
| <input type="checkbox"/> Merger                | <input type="checkbox"/> Other <input type="text"/> |

**U.S. Government**

For Use ONLY by U.S. Government Agencies

Departmental File  Secret File

**Conveying Party(ies)**

Mark if additional names of conveying parties attached

Execution Date  
Month Day Year

April 13, 2001

Name (line 1) **Joel Zvi Apisdorf**

Name (line 2)

09833578

**Second Party**

Name (line 1) **Sam Brandon Sandbore**

Name (line 2)

Execution Date  
Month Day Year

April 13, 2001

**Receiving Party**

Mark if additional names of receiving parties attached

If document to be recorded  
is an assignment and the  
receiving party is not  
domiciled in the United  
States, an appointment  
of a domestic  
representative is attached.  
(Designation must be a  
separate document from  
Assignment.)

Name (line 1) **Acorn Networks, Inc.**

Name (line 2)

Address (line 1) **11491 Sunset Hills Road**

Address (line 2) **Suite 350**

Address (line 3) **Reston**

City

**VA**

State/Country

**20190**

Zip Code

**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name <input type="text"/>
Address (line 1) <input type="text"/>
Address (line 2) <input type="text"/>
Address (line 3) <input type="text"/>
Address (line 4) <input type="text"/>

**FOR OFFICE USE ONLY**

05-04-2001 080200 3036042 51203 10033578

10033578

40 10 CH

**Correspondent Name and Address**

Area Code and Telephone Number **(703) 456-8000**

Name **Cooley Godward LLP**

**RECEIVED**

Address (line 1) **One Freedom Square**

OCT 20 2003

Address (line 2) **Reston Town Center**

Address (line 3) **11951 Freedom Drive**

Technology Center 2600

Address (line 4) **Reston, Virginia 20190-5601**

Pages

Enter total number of pages of the attached conveyance document  
including any attachments.

# **6**

**Application Number(s) or Patent Number(s)**

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)


Patent Number(s)


If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing Inventor.

Month **April** Day **13** Year **2001**

**Patent Cooperation Treaty (PCT)**

Enter PCT application number  
only if a U.S. Application Number  
has not been assigned.

PCT	PCT	PCT
PCT	PCT	PCT

**Number of Properties**

Enter the total number of properties involved.

# **1**

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

\$ **40**

Method of Payment:

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Enclosed

Deposit Account

Deposit Account Number:

# **50-1283**

Authorization to charge additional fees:

Yes  No

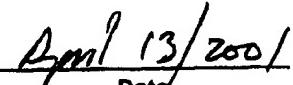
**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

David J. O'Neill (RN 42,953)

Name of Person Signing

  
Signature

  
Date



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OCT 20 2003

Technology Center 2600

FORM PTO-1619C  
Expires 09/30/99  
OMB 0651-0027

**RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY**

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

**Conveying Party(ies)**  
Enter additional Conveying Parties

Mark if additional names of conveying parties attached

Name (line 1) Michael Daniel Poole

Execution Date  
Month Day Year  
04/13/03

Name (line 2)

Name (line 1)

Name (line 2)

Name (line 1)

Name (line 2)

Execution Date  
Month Day Year  
04/13/03

Execution Date  
Month Day Year  
04/13/03

**Receiving Party(ies)**  
Enter additional Receiving Party(ies)

Mark if additional names of conveying parties attached

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

**Application Number(s) or Patent Number(s)**

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)



93072 v1/RE  
1ZTC011.DOC

Rev. 3/14/01

**PATENT**  
REEL: 011779 FRAME: 0003

Attorney Docket No: ACRN-002/00US

PATENT

ASSIGNMENT  
(Joint)

Joel Zvi Apisdorf, residing at, 12205 Nutmeg Lane, Reston, VA 20191; Sam Brandon Sandbore, residing at, 1988 Crescent Park Drive, Reston, VA 20190; Michael Daniel Poole, residing at, 11911 Winterthur Lane, Apt. 101, Reston, VA 20190 (hereinafter each referred to as "Assignor") have made an invention(s) relating to certain new and useful improvements in:

SYSTEM AND METHOD FOR DATA FORWARDING IN A PROGRAMMABLE MULTIPLE NETWORK PROCESSOR ENVIRONMENT

set forth in an application for Letters Patent of the United States, which is a

- (1)  provisional application
  - (a)  to be filed herewith; or
  - (b)  bearing Application No. , and filed on ; or
- (2)  non-provisional application
  - (a)  having an oath or declaration executed on April 13, 2001 prior to filing of application; or
  - (b)  bearing Application No. , and filed on ; and

WHEREAS, ACORN NETWORKS, INC. a corporation duly organized under and pursuant to the laws of Delaware, and having its principal place of business at 11491 Sunset Hills Road, Suite 350, Reston, VA 20190 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said invention(s), the right to file applications on said invention(s) and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned invention(s), the right to file applications on said invention(s) and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the Paris Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

PATENT  
REEL: 011779 FRAME: 0004

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is a lawful owner of the entire right, title, and interest in and to the invention(s) set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns that the Assignor will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said invention(s) or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent or Patents for said invention(s), without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignor hereby authorizes and requests the attorneys of COOLEY GODWARD L.L.P. to insert in the spaces provided above the filing date, application number, the dates of execution of the oath or declaration, and attorney docket number of said application when known;

AND the Assignor hereby requests the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee, as the Assignee of said invention(s) and the Letters Patent to be issued thereon for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: 13 April 2001

By:



Joel Zvi Apisdorf

State of: Virginia

County of: Fairfax

The preceding Assignment was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_

by \_\_\_\_\_

\_\_\_\_\_  
Notary Public

My Commission Expires:

Date: 4/13/2001

By:

  
Sam Brandon Sandbore

State of: VIRGINIA

County of: FAIRFAX

The preceding Assignment was acknowledged before me this \_\_\_\_\_ day of  
\_\_\_\_\_  
by \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires:

Date: 13 April 2001

By:

  
Michael Daniel Poole  
Michael Daniel Poole

State of: Virginia

County of: Fairfax

The preceding Assignment was acknowledged before me this \_\_\_\_\_ day of  
\_\_\_\_\_  
by \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires:

92846 v1/RE  
1ZN2011.DOC

## ASSIGNMENT

WHEREAS, ACORN NETWORKS, INC., a corporation organized under the laws of \_\_\_\_\_, is the lawful owner of the entire right, title, and interest in the following patents and/or patent applications:

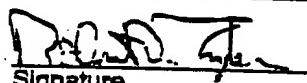
Patent Title	Application/Patent Number	Inventors
Real-Time Scheduler Method and Apparatus	Patent #US 6,195,699 B1	Jack B Dennis
Multithread Computer Design to Support an Advanced Programming Model	60/186,684	Jack B Dennis
Multiple Buffer Queuing of Data Packets with High Throughput Rate	09/688,407	Tam-Anh Chu
Multi-Thread Peripheral Processing Using Dedicated Peripheral Bus	09/715,772	Jack B Dennis, Sam B Sandbore
Locking Memory Accesses in Multi-Thread Computing System	09/715,773	Jack B Dennis
Prioritizing Resource Utilization in Multi- Thread Computing System	09/715,778	Jack B Dennis
Priority Mechanism for a Multithreaded Computer	60/186,825	Jack B Dennis
Integrated Processor for Multithread Computer with Real-Time Input/Output Capability	60/186,886	Jack B Dennis
Data-Locking Schemes for Multithread Computer	60/186,867	Jack B Dennis
System and Method for Processing Overlapping Tasks in a Programmable Network Processor Environment	09/833,581	Jack B Dennis, Joel Z Apisdorf, Sam B. Sandbore
System and Method for Data Forwarding in a Programmable Network Processor Environment	09/833,578	Jack B Dennis, Joel Z Apisdorf, Michael D Poole
System and Method for Instruction-Level Parallelism in a Programmable Network Processor Environment	09/833,580	Joel Z Apisdorf, Sam B. Sandbore
Adaptive Control of Multiplexed Input Buffer Channels	09/859,150	Sam B Sandbore
Shift Processing Unit	09/833,786	Sam B Sandbore

WHEREAS, the Government of the United States, as represented by the Secretary of the Navy and hereinafter referred to as the Government, is desirous of acquiring an assignment of the invention disclosed in said applications and/or patents; and

WHEREAS, Acorn Networks, Inc., is desirous of granting such an assignment;

NOW, THEREFORE, in consideration of good and valuable consideration the receipt of which is hereby acknowledged, Acorn Networks, Inc. hereby assigns and transfer to the Government the entire right, title and interest in and to U.S. Patent No. 6,195,699, and in and to U.S. Patent Application Nos. 60/166,884, 09/688,407, 09/715,772, 09/715,773, 09/715,778, 60/166,685, 60/166,686, 60/186,867, 09/833,581, 09/833,578, 09/833,580, substitution thereof, and the entire right, title and interest in and to any continuation, division, or invention, application and Letters Patent as may issue therefrom and any reissue or extensions thereof, said Patent may be granted, as fully and entirely as the same would have been held by Acorn Networks, Inc. had this assignment not been made.

Executed this 11<sup>th</sup> day of JUNE, 2002, at ALEXANDRIA, VA



Signature



Title

UNITED STATES BANKRUPTCY COURT  
Eastern District of Virginia  
Alexandria Division

In Re:

CASE NO. 02-81375-RGM

ACORN NETWORKS, INC.

Debtor(s)

(Chapter 7)

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APPOINTMENT OF INTERIM TRUSTEE AND TRUSTEE  
AND DESIGNATION OF REQUIRED BOND

---

ROBERT C. TYLER of ALEXANDRIA, VIRGINIA,  
is hereby appointed Interim Trustee for the estate(s) of the above named  
debtor(s). Unless a trustee is elected at the meeting of creditors to be  
called pursuant to Section 341 of Title 11, United States Code, in the above  
referenced case, the Interim Trustee shall serve as Trustee.

This case is covered by the blanket bond for Chapter 7 case Trustees, a  
copy of which is on file with the Court.

March 26, 2002

Dated

W. Clarkson McDow, Jr.  
United States Trustee

By:

  
Dennis J. Early  
Asst. U.S. Trustee  
115 S. Union Street  
Suite 210  
Alexandria, Virginia 22314  
(703) 557-7176